Figure 2-3. Comprehensive Surveillance Plan (CSP) for Safety Attribute Inspections (SAI).

CSP-SAI

The CSP-SAI is an automated tool that PI and other CMT members use to plan and record surveillance requirements for a specific air carrier. Both Airworthiness and Operations specialties must complete the CSP-SAI. Therefore, the tool is divided into two sections: Airworthiness and Operations.

CSP-SAI DESCRIPTION

The CSP-SAI is simple, yet structured, and provides the flexibility for use by many different types of air carriers. It provides a template for the PI to determine, based on data and information analysis, knowledge, and experience, the most appropriate level of surveillance for each of their air carrier elements. The CSP-SAI development gives the PI the freedom and authority to increase surveillance in problem areas and reduce surveillance in proven areas.

It is the PI's responsibility to make appropriate decisions and determinations on the surveillance requirements. However, the CSP-SAI does provide information by element that the PI can use to determine the surveillance requirements for the air carrier. This information includes the element name, the criticality baseline associated with the element, and the SAI priority associated with the sub-system.

The CSP-SAI also provides space for the PI to record the information that will form the basis for each of the individual Inspector Work Plans. This section of the CSP-SAI includes space for the initial plan SAI, the current plan SAI, the completed SAI, the remaining SAI, SAI Team members and instructions, and a space for any notes.

CSP-SAI INSTRUCTIONS

The CSP-SAI will be used by PI and the CMT to document the results of their planning activities, both annually and as required by retargeting. The rows associated with the CSP-SAI document the air carrier system elements. The PI for Operations will identify and record the system-based surveillance requirements for the Operations elements and the PIs for Maintenance and Avionics will identify and record the system-based surveillance requirements for the Airworthiness elements.

Many of the columns presented on the CSP-SAI contain either standard information provided as guidance or information auto-filled from sources throughout the process.

The *SAI Priority* column is auto-filled from the Weighted Percentage column for each sub-system on the ACAT. The *SAI Priority* column prioritizes the sub-systems; the sub-system with the greatest level of concern will have an SAI Priority of 1 and the sub-system with the least level of concern will have an SAI Priority of 10 (for Airworthiness) or 8 (for Operations).

Considering the SAI Priority, the PI will determine which subsystems will be evaluated during the plan year. The PI will indicate which elements within the subsystem in the *Initial Plan SAIs* column. After the PI saves the CSP-SAI as "Final", the value entered into the *Initial Plan SAIs* column will AutoFill the *Current Plan SAIs* column which provides a status of current SAIs planned.

Once an SAI Inspection Record is completed, the *Completed SAIs* column in the CSP-SAI will automatically be updated to reflect that completion.

Once the *Completed SAIs* column has been filled, the *Remaining SAIs* column will be automatically computed by subtracting the *Completed SAIs* column from the *Current Plan SAIs* column. This process allows the PI to easily identify and follow the status of the SAI through completion of the CSP.

The PI enters information into the SAI Team column. Automation will provide the Plan ID, Sub-system ID/Name, and a listing of the CMT inspectors by specialty. The PI will first select a name from the list of inspectors, which will identify the SAI Team Coordinator (SAI TC). The PI will then select names from the list of inspectors identifying the additional SAI Team members. The PI will also enter any other specific instructions necessary for the SAI Team to complete the SAI inspection. Automation assigns a unique Record ID to each of the planned SAI and ensures that each inspector on the SAI Team has access to the records associated with that SAI.

The CSP-SAI also provides a Notes column where the PI can enter any general notes or comments related to the SAI inspection.

Retargeting results in a new version of the CSP-SAI. After review and/or adjustment of the ACAT, the PI may enter a new number in the *Current Plan SAIs* column to reflect the new number of SAI inspections to be completed for each element for the plan year. Automation updates the *Remaining SAIs* column based on the new *Current Plan SAIs* column.

If any SAI inspections are added as a result of retargeting, automation will assign a unique SAI Record ID to the inspection and the PI enters the applicable information in the *SAI Team* column. The *Initial Plan SAIs* column will never change from the initial number entered for the plan year. Therefore, the PI has the capability to track what was planned initially and any changes made due to retargeting.

The detailed descriptions and instructions for completing the CSP-SAI are presented on the following pages:

CSP-SAI

ITEM	DESCRIPTION/INSTRUCTIONS
CRITICALITY BASELINE	This column identifies the level of criticality that has been defined as the standard for each element. It will be categorized as High, Medium, or Low. 0 High = A high likelihood that a failure in this element could lead to an unsafe condition. 1 Medium = A moderate likelihood that a failure in this element could lead to an unsafe condition. 2 Low = A low likelihood that a failure in this element could lead to an unsafe condition.
ELEMENTS	This column identifies the Operations or Airworthiness elements of the air carrier systems and sub-systems.
SAI PRIORITY	This column identifies a priority for each sub-system determined from the WEIGHTED PERCENTAGE column on the ACAT. This SAI PRIORITY prioritizes the fourteen sub-systems: the sub-system with the greatest level of concern will have an SAI Priority of 1 and the sub-system with the least level of concern will have an SAI Priority of 10 (for Airworthiness) or 8 (for Operations).
INITIAL PLAN SAIS	The PI enters the number of SAIs initially planned to be completed for each element for the plan year.
CURRENT PLAN SAIS	This column identifies the current number of SAIs to be completed for each element for the plan year. The PI enters any changes made in the number of SAIs, due to retargeting, in this column.
COMPLETED SAIS	This column identifies the number of SAIs that have been completed for each element for the plan year.
REMAINING SAIS	This column identifies the number of SAI inspections left to be completed for each element for the plan year.
SAI TEAM	From a drop-down listing of CMT inspectors by specialty, the PI will first select an inspector for the SAI TC role. The PI will then select the additional SAI Team inspectors. The PI will also enter any other specific instructions necessary.

NOTES	The PI may enter any additional comments in this column.

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
AIRWORTHINESS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
	1.0	**AIRCRAFT CONFIGURATION CONTROL**							
	1.1	**Aircraft**							
High	1.1.1	Aircraft Airworthiness Requirements							
Medium	1.1.2	Appropriate Operational Equipment							
TBD	1.1.3	Special Flight Permits							
	1.2	**Records and Reporting Systems**							
High	1.2.1	Airworthiness Release or Log Book Entry							
Medium	1.2.2	Major Repairs and Alterations							
High	1.2.3	Maintenance Log/Recording Requirements							
Low	1.2.4	MIS Reports							

* High *A high likelihood that a failure in this element could lead to an unsafe condition.*
Medium *A moderate likelihood that a failure in this element could lead to an unsafe condition.*
Low *A low likelihood that a failure in this element could lead to an unsafe condition.*

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)

AIRWORTHINESS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
Low	1.2.5	Mechanical Reliability Reports (MRR)							
Low	1.2.6	Aircraft Listing							
	1.3	**Maintenance Organization**							
High	1.3.1	Maintenance Program							
High	1.3.2	Inspection Program							
High	1.3.3	Maintenance Facilities/Main Maintenance Base							
High	1.3.4	RII							
High	1.3.5	MEL/CDL/Deferred Maintenance							
High	1.3.6	AD Management							
High	1.3.7	Outsource Organization							
High	1.3.8	Control of Calibrated Tools and Test Equipment							
High	1.3.9	Engineering/Major Repairs and Alterations							
High	1.3.10	Parts/Material Control/SUP							
High	1.3.11	Continuous Analysis and Surveillance (CAS)							
High	1.3.12	SFAR36							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
AIRWORTHINESS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
High	1.3.13	DAS							
Low	1.3.14	GMM/Equivalent							
Medium	1.3.15	Reliability Program							
Medium	1.3.16	Fueling							
High	1.3.17	Weight and Balance Program							
High	1.3.18	De-Icing Program							
Low	1.3.19	Lower Landing Minimums							
TBD	1.3.20	Engine Condition Monitoring							
TBD	1.3.21	Parts Pooling							
TBD	1.3.22	Parts Borrowing							
TBD	1.3.23	Short-term Escalations							
TBD	1.3.24	CASE							
	2.0	**MANUALS**							
	2.1	**Manual Management**							
Medium	2.1.1	Currency							
Medium	2.1.2	Content Consistency Across Manuals							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)

AIRWORTHINESS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
Medium	2.1.3	Distribution							
Medium	2.1.4	Availability							
Medium	2.1.5	Supplemental Operations Manual Requirements							
	4.0	**PERSONNEL TRAINING AND QUALIFICATIONS**							
	4.1	**Maintenance Personnel Qualifications**							
High	4.1.1	RII Personnel							
Medium	4.1.2	Maintenance Certificate Requirements							
	4.2	**Training Program**							
High	4.2.1	Maintenance Training Program							
High	4.2.2	RII Training Requirements							
Low	4.2.8	Simulators/Training Devices							
	4.4	**Mechanics and Repairmen Certification**							
Low	4.4.1	Recency of Experience							
Low	4.4.2	Display of Certificate							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
AIRWORTHINESS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
Low	4.4.3	Privileges - Airframe and Powerplant							
Low	4.4.4	Privileges and Limitations for Repairmen							
	5.0	**ROUTE STRUCTURES**							
	5.1	**Approved Routes and Areas**							
Medium	5.1.1	Line Stations (Servicing and Maintenance)							
Medium	5.1.2	Weather Reporting / SWARS							
Medium	5.1.3	Non-Federal NAVAIDs							
Low	5.1.4	Altimeter Setting Sources							
TBD	5.1.8	ETOPS							
TBD	5.1.9	RVSM Authorization							
	6.0	**AIRMAN AND CREWMEMBER FLIGHT, REST, AND DUTY TIME**							
	6.2	**Maintenance Personnel**							
Low	6.2.1	Maintenance Duty Time							
	7.0	**TECHNICAL ADMINISTRATION**							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
AIRWORTHINESS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
	7.1	**Key Personnel**							
Low	7.1.1	Director of Maintenance							
Low	7.1.2	Chief Inspector							
Low	7.1.3	Director of Safety							
Low	7.1.6	Maintenance Control							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
OPERATIONS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
	1.0	**AIRCRAFT CONFIGURATION CONTROL**							
	1.1	**Aircraft**							
Medium	1.1.2	Appropriate Operational Equipment							
	2.0	**MANUALS**							
	2.1	**Manual Management**							
Medium	2.1.1	Currency							
Medium	2.1.2	Content Consistency Across Manuals							
Medium	2.1.3	Distribution							
Medium	2.1.4	Availability							

* High *A high likelihood that a failure in this element could lead to an unsafe condition.*
Medium *A moderate likelihood that a failure in this element could lead to an unsafe condition.*
Low *A low likelihood that a failure in this element could lead to an unsafe condition.*

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
OPERATIONS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
Medium	2.1.5	Supplemental Operations Manual Requirements							
	3.0	**FLIGHT OPERATIONS**							
	3.1	**Air Carrier Programs and Procedures**							
Medium	3.1.1	Passenger Handling							
Medium	3.1.2	Flight Attendant Duties/Cabin Procedures							
High	3.1.3	Airman Duties/Flight Deck Procedures							
Medium	3.1.4	Operational Control							
Medium	3.1.5	Carry On Baggage							
Medium	3.1.6	Exit Seating							
High	3.1.7	De-Icing Program							
High	3.1.8	Carriage of Cargo							
High	3.1.9	Aircraft Performance Operating Limitations							
Low	3.1.10	Lower Landing Minimums							
TDB	3.1.11	Computer Based Record Keeping							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
OPERATIONS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
TBD	3.1.12	HAZMAT / Dangerous Goods Program							
TBD	3.1.13	Other Personnel with Operational Control							
	3.2	**Operational Release**							
High	3.2.1	Dispatch or Flight Release							
High	3.2.2	Flight/Load Manifest/Weight and Balance Control							
High	3.2.3	MEL/CDL Procedures							
	4.0	**PERSONNEL TRAINING AND QUALIFICATIONS**							
	4.2	**Training Programs**							
High	4.2.3	Training of Flight Crewmembers							
High	4.2.4	Training of Flight Attendants							
High	4.2.5	Training of Dispatcher							
High	4.2.6	Training of Station Personnel							
High	4.2.7	Training of Check Airman and Instructors							
High	4.2.8	Simulators/Training Devices							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
OPERATIONS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
High	4.2.9	Outsource Crewmember Training							
High	4.2.10	Aircrew Designated Examiner							
TBD	4.2.11	Training of Flight Followers							
	4.3	**Crewmember and Dispatch Qualifications**							
Medium	4.3.1	Pilot Operating Limitations/Recent Experience							
Medium	4.3.2	Appropriate Airman/Crewmember Checks and Qualifications							
TBD	4.3.3	Advanced Qualification Program (AQP)							
	5.0	**ROUTE STRUCTURES**							
	5.1	**Approved Routes and Areas**							
Medium	5.1.5	Station Facilities							
Low	5.1.6	Use of Approved Routes, Areas and Airports							
TBD	5.1.7	Special Navigation Areas of Operation							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
OPERATIONS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS		SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
TBD	5.1.8	ETOPS							
TBD	5.1.9	RVSM Authorization							
	6.0	**AIRMAN AND CREWMEMBER FLIGHT, REST, AND DUTY TIME**							
	6.1	**Airman and Crewmember Limitations for Domestic, Flag, Supplemental, and Commercial**							
Medium	6.1.1	Scheduling/Reporting System							
Medium	6.1.2	Flight Crewmember Flight/Duty/Rest Time							
Medium	6.1.3	Flight Attendant Duty/Rest Time							
Medium	6.1.4	Dispatcher Duty/Rest Time							
	7.0	**TECHNICAL ADMINISTRATION**							
	7.1	**Key Personnel**							
Low	7.1.3	Director of Safety							
Low	7.1.4	Director of Operations							
Low	7.1.5	Chief Pilot							

COMPREHENSIVE SURVEILLANCE PLAN - SAFETY ATTRIBUTE INSPECTION (SAI)
OPERATIONS

Air Carrier _____ Air Carrier Designator _____

Criticality Baseline*	ELEMENTS	SAI Priority	Initial Plan SAIs	Current Plan SAIs	Completed SAIs	Remaining SAIs	SAI Team	Notes
	7.2 Other Programs							
TBD	7.2.1 Safety Program (Ground and Flight)							